

ABSTRACT OF THE DISCLOSURE

A three-dimensional crossbar network of a distributed exchanger type for connecting $L \times M \times N$ arithmetic units, in which an interface conversion LSI 32 for transferring a packet 5 to a Z axis crossbar switch 41 is provided between an X axis crossbar switch 21 and a Y axis crossbar switch 31. The interface conversion LSI 32 has an optical module 33 so that an optical fiber 300 can be applied as a packet transfer path between the Y axis crossbar switch and the Z axis crossbar 10 switch.